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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.11/AN/CSR-06/058f/CEMENT/2016-17 Date: 08.06.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. Aswathnarayana,** #38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.
***NAME OF THE WORK**	:	Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
***REFERENCE**	:	AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	06.06.2016
PERIOD OF TESTING	:	06.06.2016 to 08.06.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

* Information is furnished by the Customer/Representative.

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore-97

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-06/058f/SAND-Gradation/2016-17 : 08.06.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Aswathnarayana,**
#38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.

*** Name of Work** : Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 06.06.2016

Date of Testing : 08.06.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.00	90-100	90-100	90-100	95-100
2.36	77.50	60-95	75-100	85-100	95-100
1.18	55.00	30-70	55-90	75-100	90-100
600 Micron	25.50	15-34	35-59	60-79	80-100
300 Micron	13.00	5-20	8-30	12-40	15-50
150 Micron	5.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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BBMP, Bangalore-97

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-06/058f/AGG/GR/2016-17 : 08.06.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Aswathnarayana,**
#38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.

*** Name of Work** : Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 06.06.2016

Date of Testing : 08.06.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.21	95-100	85-100
20	46.93	30-70	0-20
10	18.36	10-35	0-5
4.75	2.79	0-5	-

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.11/AN/STEEL/2016-17 20.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Aswathnarayana,** #38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.
Name of the Work	:	Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/180/2016-17 Dated : 06.06.2016
Date of Test	:	20.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Job No.: CTCE/BBMP/W.No.11/AN/STEEL/2016-17 20.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Ashwathnarayana,** #38, Channappa Layout, Sharadamba Nagara, Bangalore – 13.
Name of the Work	:	Improvements to CC road at Murali House behind road, Somamnna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/180/2016-17 Dated : 06.06.2016
Date of Test	:	20.06.2016

Sl. No.	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.50	O.K	O.K

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-06/058f/CUBE/2016-17 18.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Aswathnarayana,**
#38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.

*** Name of the work** : Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 18.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2016	18.07.2016	8.125	363.6	16.16
2	20.06.2016	18.07.2016	8.225	379.6	16.87
3	20.06.2016	18.07.2016	8.390	389.5	17.31

Assistant Executive Engineer
Vidyaranyapura Sub Division
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Job No.: CTCE/BBMP/W.No.11/AN/CSR-06/058f/CUBE/2016-17 21.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	: **Mr. Aswathnarayana,** #38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.
*** Name of the work**	: Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	: AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016
*** Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 21.07.2016

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2016	21.07.2016	8.150	478.3	21.26
2	23.06.2016	21.07.2016	8.290	492.3	21.88
3	23.06.2016	21.07.2016	8.315	510.2	22.68

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-06/058f/CUBE/2016-17 26.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Aswathnarayana,**
#38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.

*** Name of the work** : Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 26.07.2016

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.06.2016	26.07.2016	8.125	473.9	21.06
2	28.06.2016	26.07.2016	8.258	485.2	21.56
3	28.06.2016	26.07.2016	8.310	502.3	22.32

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-06/058f/CUBE/2016-17 26.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Aswathnarayana,**
#38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.

*** Name of the work** : Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 26.07.2016

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.06.2016	26.07.2016	8.258	478.3	21.26
2	28.06.2016	26.07.2016	8.310	492.3	21.88
3	28.06.2016	26.07.2016	8.478	502.3	22.32

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-06/058f/CUBE/2016-17 27.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	: **Mr. Aswathnarayana,** #38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.
*** Name of the work**	: Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	: AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016
*** Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 27.07.2016

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore -97

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.06.2016	27.07.2016	8.120	475.5	21.13
2	29.06.2016	27.07.2016	8.250	495.3	22.01
3	29.06.2016	27.07.2016	8.315	510.2	22.68

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	: **Mr. Aswathnarayana,** #38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.
*** Name of the work**	: Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	: AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016
*** Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 27.07.2016

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.06.2016	27.07.2016	8.118	480.5	21.36
2	29.06.2016	27.07.2016	8.225	498.6	22.16
3	29.06.2016	27.07.2016	8.315	501.5	22.29

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Job No.: CTCE/BBMP/W.No.11/AN/CSR-06/058f/CUBE/2016-17 28.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Aswathnarayana,** #38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.

*** Name of the work** : Improvements to CC road at Murali House behind road, Somanna's House Road and near Abdula's House Road in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : AEE/BBMP/VSD/PR/180/2016-17 Dated: 06.06.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 28.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2016	28.07.2016	8.290	482.6	21.45
2	30.06.2016	28.07.2016	8.356	502.3	22.32
3	30.06.2016	28.07.2016	8.475	510.4	22.68

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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